Laboratory Analysis Report

Total Number of Pages: 8

Job ID : 19060221

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
ITC-DP Outfall 002

Report To :

Client Name:	Intercontinental Terminal Company
Attn:	Tyler Blankenship
Client Address:	P. O. Box 698
City, State, Zip:	Deer Park , TX, 77536

P.O.#.: 370468
Sample Collected By: Valera Phipps
Date Collected: 06/04/19 - 06/05/19

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
WW-20190604-002 - Day 29	Water	19060221.01
WW-20190605-002 - Day 30	Water	19060221.02

Released By: Senthilkumar Sevukan
Title: Assistant Lab Manager
Date: 6/6/2019

90015988

This Laboratory is NELAP (T104704213-19-20) accredited. Effective: 04/01/2019; Expires: 3/31/2020
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

Date Received : 06/05/2019 18:26

Report Number: RPT190606052

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 19060221

Date: 6/6/2019

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count
J	Estimation. Below calibration range but above MDL		

Qualifier Definition

LABORATORY TEST RESULTS

Job ID : 19060221

Date 6/6/2019

Client Name: Intercontinental Terminal Company

Attn: Tyler Blankenship

Project Name: ITC-DP Outfall 002

Client Sample ID: WW-20190604-002 - Day 29

Date Collected: 06/04/19

Time Collected: 10:00

Other Information:

Job Sample ID: 19060221.01

Sample Matrix Water

% Moisture

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MQL	Q	Date Time	Analyst
SM 4500CN-CG	Cyanide, Amenable Ultra Low								
	Cyanide, Amenable	<0.001	mg/L	1	0.001	0.002		06/06/19 15:15	LEB

LABORATORY TEST RESULTS

Job ID : 19060221

Date 6/6/2019

Client Name:	Intercontinental Terminal Company
Project Name:	ITC-DP Outfall 002

Attn: Tyler Blankenship

Client Sample ID:	WW-20190605-002 - Day 30	Job Sample ID:	19060221.02
Date Collected:	06/05/19	Sample Matrix	Water
Time Collected:	10:00	% Moisture	
Other Information:			

Test Method	Parameter/Test Description	Result	Units	DF	SDL	MQL	Q	Date Time	Analyst
EPA 300.0	Anions								
	Ortho Phosphate-P	<0.03	mg/L	1	0.03	0.1		06/06/19 13:25	RR

QUALITY CONTROL CERTIFICATE

Job ID : 19060221 **Date :** 6/6/2019

Analysis : Anions **Method : EPA 300.0** **Reporting Units : mg/L**

QC Batch ID : Qb19060649 **Created Date :** 06/06/19 **Created By :** RRaval

Samples in This QC Batch : 19060221.02

Sample Preparation : PB19060631 **Prep Method :** EPA 300.0 **Prep Date :** 06/06/19 08:00 **Prep By :** RRaval

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Ortho Phosphate-P		< MDL	mg/L	1	0.1	0.03		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Ortho Phosphate-P	1	0.935	93.5	1	1.00	100	6.7	20	90-110	

QC Type: MS and MSD
QC Sample ID: 19060215.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Nitrite-N	BRL	1	1.11	111						80-120	
Nitrate-N	0.184	1	1.29	111						80-120	
Ortho Phosphate-P	BRL	1	1.11	111						80-120	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 19060221 **Date :** 6/6/2019

Analysis : Cyanide, Amenable Ultra Low **Method : SM 4500CN-CG** **Reporting Units : mg/L**

QC Batch ID : Qb19060670 **Created Date :** 06/06/19 **Created By :** LEBell

Samples in This QC Batch : 19060221.01

Sample Preparation : PB19060642 **Prep Method :** SM 4500CN-CG **Prep Date :** 06/06/19 11:00 **Prep By :** LEBell

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	MQL	MDL		Qual
Cyanide, Amenable	57-12-5	< MDL	mg/L	1	0.002	0.001		

QC Type: Duplicate

QC Sample ID: 19060221.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Cyanide, Amenable	BRL	BRL		0	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Cyanide, Amenable	0.02	0.0199	99.5	0.02	0.0199	99.5			80-120	

QC Type: MS and MSD

QC Sample ID: 19060221.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Cyanide, Amenable	BRL	0.02	BRL							80-120	

Refer to the Definition page for terms.

The Chain of Custody is a Legal Document

10100 East Freeway (I-10)
Houston, TX 77029
713-453-6060
1-877-478-6060 Toll Free
713-453-6091 Fax
info@ablabs.com
www.ablabs.com

A&B JOB ID: 1906022

1. REPORT TO:	2. INVOICE TO:	3. PO # 375784
Co: Intercontinental Terminals Co	Company: Same	4. Turnaround Time- Business Days
Address: 1943 Independence Pkwy	Address:	☑ 1 Day * ☐ 5 Days *
City, St,Zip: LaPorte TX 77571		☒ 2 Days * ☐ 7 Days-Std
Contact: Tyler Blankenship	Contact:	☐ 3 Days * ☐ Other ____
Phone: 281-884-0358/832-643-9594	Phone:	* Surcharge Applies
Fax:	Fax:	*Day Zero is the day sample is received. Report due at 5pm on due day.*
Email: tblankenship@iterm.com	Email: ap@iterm.com	
CC: distribution list	CC:	

5. Project #

6. Project Name / Location: ITC - DP OUTFALL 002

7. Reporting Requirement
☐ TRRP Limits Only ☐ TRRP Rpt. Package ☐ See Attached ☑ Standard Level II

8. Sampler's Name & Company: Valera Phipps, Brett Mckee Cardno

Sampler's Signature & Date: 6/5/19

9. Sample ID & Description	Lab Use Only	10. Sampling Date	10. Sampling Time	11. comp	11. grab	12. Matrix: Water	Soil	Sludge	Oil	Air	Other	13. No. of Containers: P	OH,T	Amenable Cyanide	Ultra Low	orthophosphate via Method 300	14. Containers*	15. Preservatives**	16. pH-Lab Only
~~Outfall 002~~				X		X						1		X					
WW-20190604-002-DAY29 .02G		6/4/19	1000	X		X						1		X					
WW-20190605-002-DAY30 .02G		6/5/19	1000		X	X						1				X			

18. Comments: Flow: Temp:

19. RELINQUISHED BY	DATE	TIME	20. RECEIVED BY	DATE	TIME	KNOWN HAZARDS / COMMENT
1)			1)	6/5/19	17:35	
2)	6/5/19	18:26	2)	06-05-2019	18:26	
3)			3)			

1707629

* Containers: VOA- 40 ml vial; 4 oz/8 oz- glass wide mouth; A/G- Amber/Glass 1 Liter; P/O- Plastic/other ____

**Preservatives: C-Cool H- HCl N- HNO3 S-H2SO4 OH- NaOH T-Na2S2O3 X- Other ____

Temperature 5.5-.5=5°C
Intact? ☒ Y ☐ N
Initials MP

METHOD OF SHIPMENT

BILL OF LADING/TRACKING #

A&B CANNOT ACCEPT VERBAL CHANGES. PLEASE FAX WRITTEN CHANGES TO 713-453-6091 OR EMAIL THE NEW COC TO YOUR PROJECT MANAGER.

Samples will be disposed of after 60 days. A&B reserves the right to return samples.

Sample Condition Checklist

A&B JobID : **19060221**	Date Received : **06/05/2019**	Time Received : **6:26PM**
Client Name : **Intercontinental Terminal Company**		
Temperature : **5.5-0.5=5.0°C**	Sample pH : **>12 CN**	
Thermometer ID : **1707629**	pH Paper ID : **72375**	

	Check Points	Yes	No	N/A
1.	**Cooler seal present and signed.**		X	
2.	**Sample(s) in a cooler.**	X		
3.	**If yes, ice in cooler.**	X		
4.	**Sample(s) received with chain-of-custody.**	X		
5.	**C-O-C signed and dated.**	X		
6.	**Sample(s) received with signed sample custody seal.**		X	
7.	**Sample containers arrived intact. (If no comment).**	X		
8.	**Matrix :** **Water** ☑ **Soil** ☐ **Liquid** ☐ **Sludge** ☐ **Solid** ☐ **Cassette** ☐ **Tube** ☐ **Bulk** ☐ **Badge** ☐ **Food** ☐ **Other** ☐			
9.	**Sample(s) were received in appropriate container(s).**	X		
10.	**Sample(s) were received with proper preservative**	X		
11.	**All samples were logged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received within the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

CN:NaOH+thio. -LeBell 06.06.2019

Received by : LEBell

Check in by/date : LEBell / 06/06/2019